

Docket No. 241676US0XCONT/shb



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

IN RE APPLICATION OF: Hiroyuki KAKIUCHI, et al.

SERIAL NO: 10/644,859

GAU: 3744

FILED: August 21, 2003

EXAMINER:

FOR: ADSORPTION HEAT PUMP AND USE OF ADSORBENT AS ADSORBENT FOR ADSORPTION HEAT PUMP

**INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR 1.97**

COMMISSIONER FOR PATENTS  
ALEXANDRIA, VIRGINIA 22313

SIR:

Applicant(s) wish to disclose the following information.

**REFERENCES**

- ☒ The applicant(s) wish to make of record the references listed on the attached form PTO-1449. Copies of the listed references are attached, where required, as are either statements of relevancy or any readily available computer generated English translations of pertinent portions of any non-English language references.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

**RELATED CASES**

- ☐ Attached is a list of applicant's pending application(s) or issued patent(s) which may be related to the present application. A copy of the patent(s), together with a copy of the claims and drawings of the pending application(s) is attached along with PTO 1449.
- ☐ A check or credit card payment form is attached in the amount required under 37 CFR §1.17(p).

**CERTIFICATION**

- ☐ Each item of information contained in this information disclosure statement was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this statement.
- ☐ No item of information contained in this information disclosure statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to the knowledge of the undersigned, having made reasonable inquiry, was known to any individual designated in 37 CFR §1.56(c) more than three months prior to the filing of this statement.

**DEPOSIT ACCOUNT**

- ☒ Please charge any additional fees for the papers being filed herewith and for which no check or credit card payment is enclosed herewith, or credit any overpayment to deposit account number 15-0030. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

OBLON, SPIVAK, McCLELLAND,  
MAIER & NEUSTADT, P.C.

Norman F. Oblon

Registration No. 24,618

Customer Number

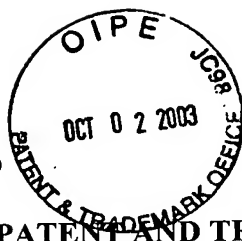
**22850**

Tel. (703) 413-3000  
Fax. (703) 413-2220  
(OSMMN 05/03)

**Roland E. Martin**  
**Registration No. 48,082**

DOCKET NO.: 241676US0X CONT/shb

Page 1 of 1



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

IN RE APPLICATION OF: Hiroyuki KAKIUCHI, et al.

SERIAL NO: 10/644,859

GROUP: 3744

FILED: August 21, 2003

EXAMINER:

FOR: ADSORPTION HEAT PUMP AND USE OF ADSORBENT AS ADSORBENT  
FOR ADSORPTION HEAT PUMP

**STATEMENT OF RELEVANCY**

**References AX and AZ on Form 1449 are discussed in the specification.**

Form PTO 1449  
(Modified)U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICEATTY DOCKET NO.  
241676US0XCONTSERIAL NO.  
10/644,859

## LIST OF REFERENCES CITED BY APPLICANT

APPLICANT  
Hiroyuki KAKIUCHI, et al.FILING DATE  
August 21, 2003GROUP  
3744

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	AA	4,440,871	04/03/84	B. M. LOK, et al.			
	AB	4,310,440	01/12/82	S. T. WILSON, et al.			
	AC	4,898,660	02/06/90	S. T. WILSON, et al.			
	AD	5,768,910	06/23/98	S. INAGAKI, et al.			
	AE	4,637,218	01/20/87	D. I. TCHERNEV			
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						
	AL						
	AM						
	AN						

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	TRANSLATION	
					YES	NO
	AO	11-197439	07/27/99	JAPAN (submitting computer generated English translation only)		
	AP	4-37007	06/18/92	JAPAN (with English Abstract)		X
	AQ	5-21844	03/25/93	JAPAN (with English Abstract)		X
	AR	5-51533	08/02/93	JAPAN (with English Abstract)		X
	AS	11-137947	05/25/99	JAPAN (submitting computer generated English translation only)		
	AT	6-76203	09/28/94	JAPAN (with English Abstract)		X
	AU	1-057041	03/03/89	JAPAN (submitting English Abstract only; corr. US 4,310,440 and US 4,898,660)		
	AV	9-178292	1997	JAPAN (submitting English Abstract only; corr. US 5,768,910)		

## OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, etc.)

	AW	M.- H. S.- GRANGE, et al., Thermochemica Acta, vol. 329, pages 77-82, "CONTRIBUTION TO THE STUDY OF FRAMEWORK MODIFICATION OF SAPO-34 AND SAPO-37 UPON WATER ADSORPTION BY THERMOGRAVIMETRY", 1999	
	AX	Kagaku Kôgaku Ronbun-shû, vol. 19, no. 6, pages 1165-1170, 1993	
	AY	K. TSUTSUMI, et al., Colloid Polym Sci, vol. 277, pages 83-88, "ADSORPTION CHARACTERISTICS AND SURFACE FREE ENERGY OF AIPO <sub>4</sub> -5", 1999	
	AZ	Dai-16-kai Zeoraito Kenkyû Happyô Kai Kôen Yokô-shû, page 91, November 21 and 22, 2000	<input type="checkbox"/> Additional References sheet(s) attached

Examiner

Date Considered

\*Examiner: Initial if reference is considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.